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FROM: Peter Yim  
Reg. 44,417

DATE: May 15, 2006

Number of pages with cover page:	<b>14</b>	
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**PJY1/8566**

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**Comments:**

**PLEASE PROCESS THE ATTACHED.**

Re: U.S. Patent Application No. 10/608,300  
For: OPTICAL METROLOGY OF STRUCTURES FORMED ON  
SEMICONDUCTOR WAFERS USING MACHINE LEARNING  
SYSTEMS  
By: Srinivas DODDI et al.  
Our reference: 50998-20055.00

Attached is the following:

1. Transmittal (1 page)
2. Amendment Under 37 CFR 1.111 (12 pages)

MAY 15 2006

PTO/SB/21 (08-04)

Approved for use through 07/31/2008. OMB 0651-0031  
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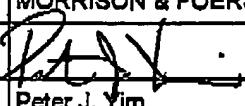
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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	10/608,300
		Filing Date	June 27, 2003
		First Named Inventor	Srinivas DQDDI
		Art Unit	2121
		Examiner Name	N. Brown
Total Number of Pages In This Submission	13	Attorney Docket Number	509982005500

**ENCLOSURES (Check all that apply)**

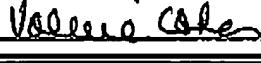
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation or Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application		<b>Remarks</b>
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	MORRISON & FOERSTER LLP (Customer No. 20872)		
Signature			
Printed name	Peter J. Yim		
Date	May 15, 2006	Reg. No.	44,417

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Dated: May 15, 2006

Signature:  (Valerie Cohen)

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Dated: May 15, 2006

Signature: Valario Cohen  
(Valario Cohen)

Docket No.: 509982005500  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Patent Application of:**  
**Srinivas DODDI et al.**

**Application No.: 10/608,300**

**Filed: June 27, 2003**

**Art Unit: 2121**

**For: OPTICAL METROLOGY OF STRUCTURES  
FORMED ON SEMICONDUCTOR WAFERS  
USING MACHINE LEARNING SYSTEMS**

**Examiner: N. Brown**

**AMENDMENT UNDER 37 C.F.R. 1.111**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is in response to the Office Action dated February 15, 2006, (Part of Paper No./Mail Date 021006). Accordingly, this response is timely filed. Reconsideration and allowance of the pending claims, as amended, in light of the remarks presented herein are respectfully requested.

sf-2129817